

Sub-surface milling machines

RUWI reserves the right to make changes in accordance with technical progress.

The ***RUWI*** product family

Flexible, effective and versatile – the **RUWI family**! This range of products makes time-consuming refitting of sub-surface milling and routing machines a thing of the past. Set up the tools you need regularly in advance so that they are ready at hand within seconds when you need them – save time and money.

RUWI drives can be infinitely and precisely adjusted to the preset position to meet specific application requirements. This eliminates costs and the need for time-consuming precision settings. Operating height can be adjusted with stop bolts (**RUWI M + L**) or freely positioned (all models) as required.

RUWI S single-spindle sub-surface milling machine is the economic tool for stationary and mobile use in workshops or on customer premises. Astonishingly swift fitting and replacement of milling and grinding tools.

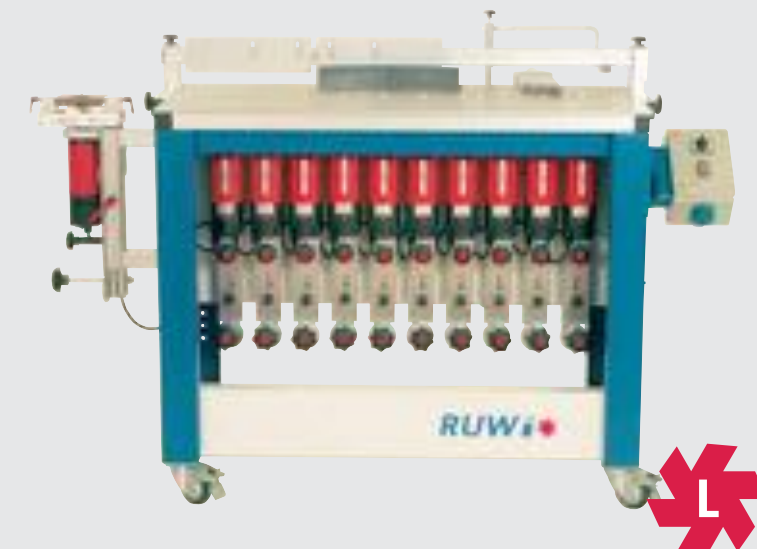
RUWI M three-spindle sub-surface milling machine with three drive motors in standard model. The treble-tooled RUWI is frequently set up beside the CNC machine. Waiting times can be used to carry out work such as bevelling, rounding or deburring.

RUWI L five- to ten-spindled sub-surface milling machine. The leading model of the **RUWI family** places a wide range of milling and grinder tools at your fingertips.

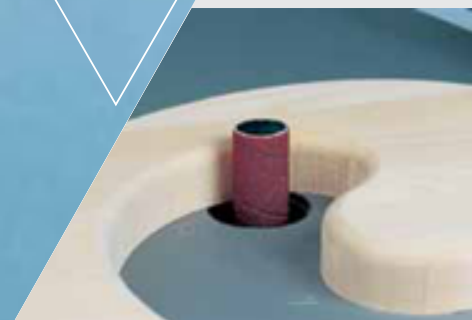
The heart of every **RUWI** is its reliable, powerful, robust drive. The electric motors are premium quality products, designed for enduring top-precision performance, also suited for use in industrial shift cycles.

The most important technical data:

- infinitely variable speed adjustment range of 8,000 – 25,000 rpm
- control electronics prevent speed fluctuation under load
- overload protection and PTC thermistor
- robust, powerful 1050-watt motor for continuous industrial operation
- made in Germany
- soft startup and inrush current limiter
- 230 V voltage
- milling spindle with 22 mm diameter and reverse-acting refeed thread prevents dirt from entering the unit, precision double bearings for highly accurate milling results
- keyless steel chuck
- 8 mm collet chucks (standard), optional 6 mm or 6.35 mm



Universal application



Sanding edges



Flush milling



Bevelling on ring

Where certain kinds of milling work are frequently repeated, the milling tools can be changed in the wink of an eye – this saves time and money. **RUWI sub-surface milling machines** are available to suit every size of company – from a one-person joiner's workshop to a major industrial operation. They are the ideal solution for processing small-series and individual parts made of the widest variety of materials. They can be permanently installed beside a large-scale CNC machine, moved for use at different locations in the workshop or even transported to a construction site.

- milling operations with next to no fitting time for the widest variety of tools
- bevelling, rounding, profiling, groove-milling, grinding
- solid wood, board materials, plastics, HPL and aluminum milling
- precision milling without trial milling operation
- modify roundings, bevellings or profiles within seconds



Upper tool cover removed to allow photography



Lamello grooves milling



Rounding on ring



Copy milling on ring



Deburring with plastic insert

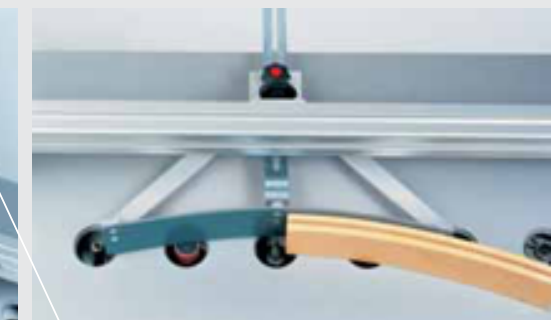
Accessories



3-D unit for retrofitting



Stop ruler



Curved ruler

RUWI sub-surface milling machines can be expanded to meet growing operational needs. The units can be upgraded and retrofitted without effort. The small, mobile **RUWI S** can be upgraded with a 3D unit, as can its bigger siblings **RUWI M** and **RUWI L**.

This **3-D free-milling jig** allows effortless milling of bent or highly curved workpieces. Two movable work-piece holders make it possible to trace every curve. An adjustable protective tool cover and adjustable extraction connectors ensure maximum safety.

The **stop ruler** with adjustable stops, pressure jig and extraction tunnel is available with or without fine-tuning regulation, depending on the base model.

The freely adjustable **curved ruler** allows infinite retracing of inner and outer radii.

RUWI L can be retrofitted with additional drive units. This allows you to fit the largest **RUWI** with up to ten motors and, consequently, accelerate your working processes. Fitting a new drive is fast and straightforward.

The small **RUWI S** is first choice when it comes to finishing CNC workpieces quickly and effortlessly. It is an interesting and economical auxiliary tool for every wood and plastic processing company. Fitted with the high quality electrical **RUWI** motors it can be used without problem even in continuous industrial operations.



Pressure jig



Precision adjustment



Increased bench height



Adjusting curved ruler

The RUWI-Drive

reliable - powerful - robust



Infinitely variable revolution

- * from 8000 - 25000 rpm



Motor with control electronics

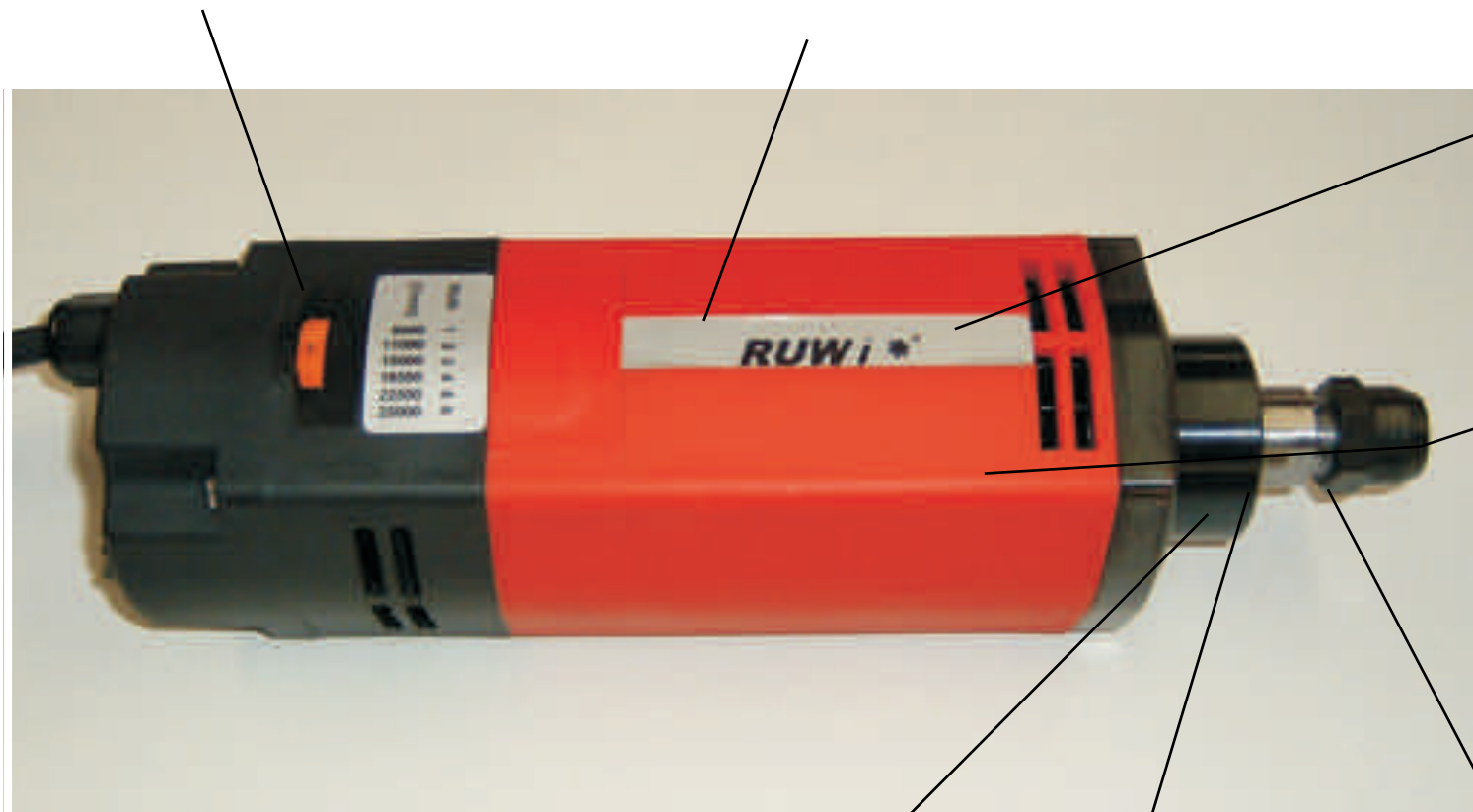
- * Users do not recognise any speed fluctuations under load due to the tachometer generator on the motor shaft. The optimum speed is always maintained at any load
- * In case of motor overload of twice the nominal current (tool blocking) the electronics shut down the drive

Technical data

- Voltage 230 V~
- Nominal current 5,0 A
- Power consumption 1050 W
- Revolutions 8000-25000 1/min
- Gradual start
- Overload protection
- Constant revolution under loadt
- PTC-thermo-monitoring

Collets

- 6 mm
- 6,35 (1/4')
- 8 mm (standard)



Robust and heavy-duty motor

- * With 1050 Watt for continuous industrial application
- * Made in Germany
- * Not to be compared with conventional manual milling machines in terms of performance and design

Motor with overload protection

- * Temperature monitoring with PTC resistor

Gradual start and start current

- * The gradual speed increase protects mechanical and electrical motor components
- * Starting without jolts reduces the risk of accidents

Chucking fixture

- * In steel design

Precise double bearing of the milling spindle

- * For highly accurate milling images
- * For high precision revolution
- * Spindle running on two ball bearings for extreme loads and long periods of time



22 mm diameter milling spindle

- * The counter-rotating refeed thread above the ball bearings reduces dust and dirt penetration

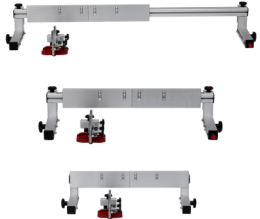
See reverse for type overview



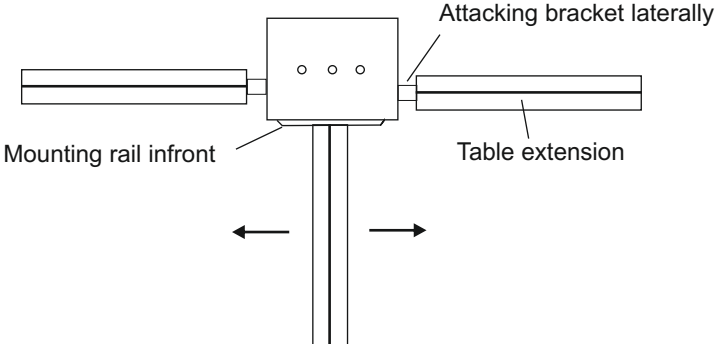
Typ list

	Article	Art. No.
	Sub-surface milling machine S Basis 1 (1 drive) table size 520x430 with pinchrolls	10000
	Sub-surface milling machine S Basis 1 Plus (1 drive + 3D unit) table size 520x430 with pinchrolls	10001
	Sub-surface milling machine M Basis 3 (3 drives) table size 640x500, with caster	10002
	Sub-surface milling machine M Basis 3 Plus (3 drives + 3D unit) table size 640x500, with caster	10003
	Sub-surface milling machine L Basis 5 (5 drives) expandable to 10 drives table size 1070x500, with caster	10005

	Article	Art. No.
	Sub-surface milling machine L Basis 6 (6 drives) expandable to 10 drives table size 1070x500, with caster	10006
	Sub-surface milling machine L Basis 7 (7 drives) expandable to 10 drives table size 1070x500, with caster	10007
	Sub-surface milling machine L Basis 8 (8 drives) expandable to 10 drives table size 1070x500, with caster	10008
	Sub-surface milling machine L Basis 9 (9 drives) expandable to 10 drives table size 1070x500, with caster	10009
	Sub-surface milling machine L Basis 10 (10 drives) table size 1070x500, with caster	10010
	Sub-surface milling machine L Basis 10 Plus (10 drives + 3D unit) table size 1070x500, with caster	10011

Typ list accessories

	Article	Art. No.
	Stop ruler for RUWI L Base 5 - 10 incl. fine-tuning regulation	10100
	for RUWI M Base 3 incl. fine-tuning regulation	10150
	for RUWI S Base 1 no fine-tuning regulation	10110
	Curved ruler	10200
	Contermax A precise and rapid means for providing a profile across the end of a timber section.	10250
	Digital depth gauge	10270
	3D unit for installing on the underfloor milling machine	10300
	Drive unit as retrofitting kit	10400
	Extra charge for fine-tuning regulation only available with drive unit	10450
	Digital altimeter only available with drive unit and extra charge	10470

	Article	Art. No.
	Increased bench height two-part set for flush milling of edges	10500 10550 for Base 3 10510 for Base 1
	Attacking bracket laterally to the cultivation of the table extension laterally on the left of or right	10830
	Mounting rail infront to the cultivation of the table extension infront length 830 mm for Base 5 - 10 length 530 mm for Base 3 length 430 mm for Base 1	10820 10810 10800
	Table extension to the enlargement of the machine table size 1100 x 172 mm	10840
Combination options		
 <p>Attacking bracket laterally</p> <p>Mounting rail infront</p> <p>Table extension</p>		